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October 15, 2021

Addendum #2

To Plans, Contract Documents and Specifications

PAULINE WHITAKER PARKWAY – BELLVIEW RD. (28TH PLACE) (ROGERS) (S)

This addendum shall be a part of the Plans, Contract Documents and Specifications to the same extent as though it were originally included therein, and it shall supersede anything contained in the Plans, Contract Documents and Specifications with which it might conflict.

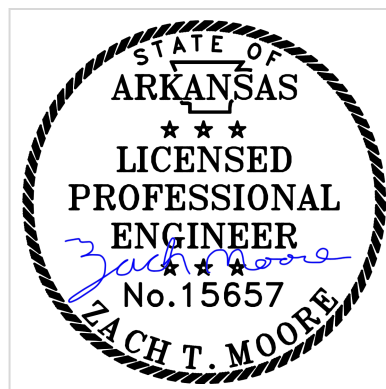
Note: Receipt of this Addendum shall be acknowledged. Failure to do so may subject Bidder to disqualification.

Addenda:

Changes to the Contract Documents

1. Replace pages "i" to 12 of "Bid Form" with pages "i" (Addendum #2) to 12 (Addendum #2) "Bid Form – Addendum #2". A pay item was added in Schedule 1 for the "1" Water Service Line & 5/8" Meter Set" located on Water Line "B".
2. Replace pages SP-26-1 to SP-26-7 of "Measurement and Payment for Water and Sewer" with pages SP-26-1 (Addendum #2) to SP-26-7 (Addendum #2) of "Measurement and Payment for Water and Sewer – Addendum #2". Measurement and payment information was added for 1" Water Service Line & 5/8" Meter Set.

By: _____
Zach Moore, PE
Project Manager



Attachments:

#1 – 00 41 00 Bid Form C-410 2013 - Addendum #2

#2 – SP-26 Measurement and Payment for Water and Sewer – Addendum #2

BID FORM

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ARTICLE 1 – BID RECIPIENT

1.01 This Bid is submitted to:

***City of Rogers
301 W. Chestnut
Rogers, AR 72756***

1.02 The undersigned Bidder proposes and agrees, if this Bid is accepted, to enter into an Agreement with Owner in the form included in the Bidding Documents to perform all Work as specified or indicated in the Bidding Documents for the prices and within the times indicated in this Bid and in accordance with the other terms and conditions of the Bidding Documents.

ARTICLE 2 – BIDDER’S ACKNOWLEDGEMENTS

2.01 Bidder accepts all of the terms and conditions of the Instructions to Bidders, including without limitation those dealing with the disposition of Bid security. This Bid will remain subject to acceptance for 120 days after the Bid opening, or for such longer period of time that Bidder may agree to in writing upon request of Owner.

ARTICLE 3 – BIDDER’S REPRESENTATIONS

3.01 In submitting this Bid, Bidder represents that:

A. Bidder has examined and carefully studied the Bidding Documents, and any data and reference items identified in the Bidding Documents, and hereby acknowledges receipt of the following Addenda:

<u>Addendum No.</u>	<u>Addendum, Date</u>
_____	_____
_____	_____
_____	_____
_____	_____

B. Bidder has visited the Site, conducted a thorough, alert visual examination of the Site and adjacent areas, and become familiar with and satisfied itself as to the general, local, and Site conditions that may affect cost, progress, and performance of the Work.

C. Bidder is familiar with and has satisfied itself as to all Laws and Regulations that may affect cost, progress, and performance of the Work.

D. Bidder has carefully studied all: (1) reports of explorations and tests of subsurface conditions at or adjacent to the Site and all drawings of physical conditions relating to existing surface or subsurface structures at the Site that have been identified in the Supplementary Conditions, especially with respect to Technical Data in such reports and drawings, and (2) reports and drawings relating to Hazardous Environmental Conditions, if any, at or adjacent to the Site that have been identified in the Supplementary Conditions, especially with respect to Technical Data in such reports and drawings.

E. Bidder has considered the information known to Bidder itself; information commonly known to contractors doing business in the locality of the Site; information and observations obtained from visits to the Site; the Bidding Documents; and any Site-related

reports and drawings identified in the Bidding Documents, with respect to the effect of such information, observations, and documents on (1) the cost, progress, and performance of the Work; (2) the means, methods, techniques, sequences, and procedures of construction to be employed by Bidder; and (3) Bidder's safety precautions and programs.

- F. Bidder agrees, based on the information and observations referred to in the preceding paragraph, that no further examinations, investigations, explorations, tests, studies, or data are necessary for the determination of this Bid for performance of the Work at the price bid and within the times required, and in accordance with the other terms and conditions of the Bidding Documents.
- G. Bidder is aware of the general nature of work to be performed by Owner and others at the Site that relates to the Work as indicated in the Bidding Documents.
- H. Bidder has given Engineer written notice of all conflicts, errors, ambiguities, or discrepancies that Bidder has discovered in the Bidding Documents and confirms that the written resolution thereof by Engineer is acceptable to Bidder.
- I. The Bidding Documents are generally sufficient to indicate and convey understanding of all terms and conditions for the performance and furnishing of the Work.
- J. The submission of this Bid constitutes an incontrovertible representation by Bidder that Bidder has complied with every requirement of this Article, and that without exception the Bid and all prices in the Bid are premised upon performing and furnishing the Work required by the Bidding Documents.
- K. Bidder understands that the bid is subjected to the Davis Bacon Act including prevailing wage rates and the Contract Work hours and Safety Standards Act.
- L. Bidder understands that the bid is subjected to requirements of the Arkansas Department of Transportation (ArDOT).

ARTICLE 4 – BIDDER'S CERTIFICATION

4.01 Bidder certifies that:

- A. This Bid is genuine and not made in the interest of or on behalf of any undisclosed individual or entity and is not submitted in conformity with any collusive agreement or rules of any group, association, organization, or corporation;
- B. Bidder has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid;
- C. Bidder has not solicited or induced any individual or entity to refrain from bidding; and
- D. Bidder has not engaged in corrupt, fraudulent, collusive, or coercive practices in competing for the Contract. For the purposes of this Paragraph 4.01.D:
 - 1. "corrupt practice" means the offering, giving, receiving, or soliciting of any thing of value likely to influence the action of a public official in the bidding process;
 - 2. "fraudulent practice" means an intentional misrepresentation of facts made (a) to influence the bidding process to the detriment of Owner, (b) to establish bid prices at artificial non-competitive levels, or (c) to deprive Owner of the benefits of free and open competition;

3. "collusive practice" means a scheme or arrangement between two or more Bidders, with or without the knowledge of Owner, a purpose of which is to establish bid prices at artificial, non-competitive levels; and
4. "coercive practice" means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in the bidding process or affect the execution of the Contract.

ARTICLE 5 – BASIS OF BID

5.01 Bidder will complete the Work in accordance with the Contract Documents for the following price(s):

PAULINE WHITAKER PARKWAY – BELLVIEW RD. (28TH PLACE) (ROGERS) (S) - BID SCHEDULE 1

Item No.	Spec No.	Description	Unit	Estimated Quantity	Bid Unit Price	Bid Price
1	105	Roadway Construction Control	LS	1		
2	106	Trench and Excavation Safety Systems	LS	1		
3	201	Clearing and Grubbing	LS	1		
4	202, SS-202	Undercut and Backfill	CY	2,500		
5	202, SS-202	Excavation (Plan Quantity)	CY	9,750		
6	202, SS-202	Embankment (Plan Quantity)	CY	33,850		
7	202, SS-202	Rock Excavation	CY	200		
8	203, SS-203	Subgrade Preparation (Plan Quantity)	SY	5,872		
9	204, SS-204	Curb Backfill and Grading	Sta	12		
10	204, SS-204	4" Topsoil Placement (Yard Areas) (Plan Quantity)	SY	36,650		
11	301, SS-301	18" R. C. Pipe, Class 3	LF	1,402		
12	301, SS-301	36" R. C. Pipe, Class 3	LF	102		
13	301, SS-303	18" R. C. FES	EA	3		
14	302, SS-302	4' Curb Inlets (Circular)	EA	13		
15	302, SS-302	4' x 3' Grate Inlet (Type E)	EA	1		
16	302, SS-302	Pond Outlet Structure	EA	1		
17	302, SS-302	4' Curb Inlet Extension	EA	4		
18	302, SS-302	8' Curb Inlet Extension	EA	2		
19	305	Concrete Channel Paving	SY	50		
20	305	Channel Excavation (Plan Quantity)	CY	10,720		
21	305	Turf Reinforcement Mat (ScourStop)	SY	280		
22	305	Turf Reinforcement Mat (North American Green)	SY	850		

Item No.	Spec No.	Description	Unit	Estimated Quantity	Bid Unit Price	Bid Price
23	307	Flowable Select Material	CY	40		
24	401	6" Aggregate Base Course	SY	4,847		
25	401	3" Aggregate Base Course	SY	320		
26	403, SS-403	ACHM Surface Course (PG70-22)	TON	475		
27	403, SS-403	ACHM Binder Course (PG64-22)	TON	950		
28	405	Asphalt Concrete Patching for Maintenance of Traffic	TON	30		
29	501, SS-501	Concrete Curb and Gutter (Type A) (1'-6")	LF	2,360		
30	502, SS-502	4" Concrete Sidewalk	SY	514		
31	502, SS-502	Razorback Greenway Trail Repair	SY	100		
32	503, SS-503	Concrete Apron	SY	192		
33	503, SS-503	Gravel Driveway	SY	367		
34	505	Seeding	Acre	6		
35	505	Sodding	SY	8,950		
36	505	Additional Watering	MG	415		
37	507, SS-507	2" Striping (Thermoplastic)	LF	3,600		
38	507, SS-507	6" Striping (Thermoplastic)	LF	5,424		
39	507, SS-507	4" Striping (Reflectorized Paint)	LF	850		
40	507, SS-507	Pavement Symbols	EA	6		
41	508, SS-508	Standard Street Sign Installation	EA	4		
42	508, SS-508	Sign Support Assembly for New Street Signs	EA	4		
43	509	Erosion Control	LS	1		
44	510	Traffic Control	LS	1		
45	511	Mobilization	LS	1		
46	512, SS-512	Temporary Fencing	LF	3,670		
47	707	4" PVC Non-Metallic Conduit w/filter sock (Sch. 40) (Perf.)	LF	86		
48	SP-23	Channel Riprap (D50=24") (Plan Quantity)	CY	5,180		
49	SP-24	Stone Backfill	TON	1,500		
50	SP-25	Chinese Pistache, Installed	EA	4		
51	SP-25	Maple, Installed	EA	1		
52	SP-27	Water Quality Pond Liner	SY	490		
53	SP-28	Owner's Allowance	LS	1	\$350,000	\$350,000
54	SP-2	Bridge Construction Control	LS	1		
55	SP-2	Class S Concrete-Bridge	CY	245.3		

Item No.	Spec No.	Description	Unit	Estimated Quantity	Bid Unit Price	Bid Price
56	SP-2	Class S(AE) Concrete-Bridge	CY	779.8		
57	SP-2	Class 2 Protective Surface Treatment	SY	2,610.5		
58	SP-2	Reinforcing Steel-Bridge (Grade 60)	LB	43,930		
59	SP-2	Epoxy Coated Reinforcing Steel (Grade 60)	LB	210,770		
60	SP-2	Steel Piling (HP12x53)	LF	768		
61	SP-2	Preboring	LF	585		
62	SP-2	Metal Bridge Railing (Type H2)	LF	879		
63	SP-2	Metal Bridge Railing (Type H3)	LF	960		
64	SP-2	Transitional Approach Railing No. 1	EA	2		
65	SP-2	Transitional Approach Railing No. 2	EA	4		
66	SP-2	Transitional Approach Railing No. 3	EA	2		
67	SP-2	Structural Steel in Plate Girder Spans (A709, Gr. 50)	LB	963,120		
68	SP-2	Painting Structural Steel	TON	481.6		
69	SP-2	Elastomeric Bearings	Cu. In.	20,335		
70	SP-2	Armored Joint with Neoprene Strip Seal	LF	114		
71	SP-2	Bridge Name Plate (Type C)	EA	1		
72	SP-2	Filter Blanket	SY	869		
73	SP-2	Dumped Riprap	CY	481		
74	SP-4	Drilled Shaft (54" Dia.)	LF	171		
75	SP-4	Permanent Steel Casing (60" Dia.)	LF	117		
76	SP-5	Crosshole Sonic Logging (54" Dia.)	EA	6		
77	SP-5	Coring Drilled Shaft	LF	57		
78	SP-7	Textured Coating Finish	SY	1,556		
79	SP-8	Architectural Finish	SF	2,273		
80	SP-22	Light Fixture, Type B, Installed on 12' Mtg. Ht. Pole with Associated Hardware and Foundation	EA	8		
81	SP-22	Light Fixture, Type C, Installed on Mounting Bracket With Associated Hardware	EA	3		

Item No.	Spec No.	Description	Unit	Estimated Quantity	Bid Unit Price	Bid Price
82	SP-22	Electrical Handhole, Composite	EA	2		
83	SP-22	Electrical Handhole, NEMA 3R	EA	8		
84	SP-22	Non-Encased Schedule 40 PVC, 2" Diameter, Installed in Trench	LF	500		
85	SP-22	Galvanized Rigid Steel Conduit, 2" Diameter, Exposed	LF	1,000		
86	SP-22	Galvanized Rigid Steel Conduit, 3/4" Diameter, Exposed	LF	125		
87	SP-22	PVC Coated Galvanized Rigid Steel Conduit, 2" Diameter	LF	100		
88	SP-22	No. 10 AWG Copper Conductor	LF	5,200		
89	SP-22	No. 4/0 AWG Bare Copper Conductor	LF	1,250		
90	SP-22	Electrical Service Pedestal	EA	1		
91	SP-26	Utility Mobilization	LS	1		
92	SP-26	Utility Trench Excavation Safety Systems	LS	1		
93	SP-26	Spot Dig and Verify Existing Utility Locations	LS	1		
94	SP-26	12" DI Water Line	LF	2,550		
95	SP-26	8" DI Water Line	LF	108		
96	SP-26	Ductile Iron Fittings for Water Line	LB	1,800		
97	SP-26	Concrete Anchor Collar Block	EA	1		
98	SP-26	Fire Hydrant Assembly	EA	2		
99	SP-26	12" Butterfly Valve	EA	4		
100	SP-26	8" Gate Valve	EA	3		
101	SP-26	24" Steel Encasement by Open Cut	LF	140		
102	SP-26	Trench Undercut and Backfill	CY	120		
103	SP-26	Rock Excavation for Utilities	CY	90		
104	SP-26	1" Water Service Line & 5/8" Meter Set	EA	1		
105	SP-28	Water and Sewer Owner's Allowance	LS	1	\$50,000	\$50,000
Total of All Unit Price Bid Schedule 1 Items					\$	

JB HUNT DRIVE ROUNDABOUT - BID SCHEDULE 2

Item No.	Spec No.	Description	Unit	Estimated Quantity	Bid Unit Price	Bid Price
106	105	Roadway Construction Control	LS	1		
107	106	Trench and Excavation Safety Systems	LS	1		
108	201	Clearing and Grubbing	LS	1		
109	202, SS-202	Undercut and Backfill	CY	1,700		
110	202, SS-202	Excavation (Plan Quantity)	CY	7,050		
111	202, SS-202	Embankment (Plan Quantity)	CY	4,470		
112	202, SS-202	Rock Excavation	CY	200		
113	203, SS-203	Subgrade Preparation (Plan Quantity)	SY	8,437		
114	204, SS-204	Curb Backfill and Grading	Sta	17		
115	204, SS-204	4" Topsoil Placement (Yard Areas) (Plan Quantity)	SY	6,511		
116	301, SS-301	18" R. C. Pipe, Class 3	LF	421		
117	301, SS-301	18" R. C. Pipe (Removed, Salvaged, and Reinstalled)	LF	158		
118	301, SS-301	Remove and Replace Backfill Over Existing Pipe	CY	370		
119	302, SS-302	4' Curb Inlets (Circular)	EA	8		
120	302, SS-302	5' x 5.5' Reverse Throat Curb Inlet	EA	1		
121	302, SS-302	4' Junction Box (Circular)	EA	1		
122	302, SS-302	4' Curb Inlet Extension	EA	6		
123	302, SS-302	8' Curb Inlet Extension	EA	1		
124	302, SS-302	12' Curb Inlet Extension	EA	1		
125	401	8" Aggregate Base Course	SY	5,760		
126	401	6" Aggregate Base Course	SY	1,167		
127	401	4" Aggregate Base Course	SY	8		
128	403, SS-403	ACHM Surface Course (PG70-22)	TON	920		
129	403, SS-403	ACHM Binder Course (PG64-22)	TON	175		
130	403, SS-403	ACHM Binder Course (PG70-22)	TON	1,110		
131	405	Asphalt Concrete Patching for Maintenance of Traffic	TON	15		
132	501, SS-501	Concrete Curb and Gutter (Type A) (1'-6")	LF	3,006		

Item No.	Spec No.	Description	Unit	Estimated Quantity	Bid Unit Price	Bid Price
133	501, SS-501	Concrete Roll Curb and Gutter (2'-0")	LF	352		
134	501, SS-501	Concrete Curb (Type D) (6")	LF	271		
135	502, SS-502	4" Concrete Sidewalk	SY	1,221		
136	502, SS-502	6" Concrete Sidewalk	SY	80		
137	503, SS-503	Concrete Apron	SY	57		
138	503, SS-503	Concrete Driveway	SY	60		
139	503, SS-503	Aggregate Base Course Driveway	SY	10		
140	505	Seeding	Acre	2		
141	505	Sodding	SY	1,895		
142	505	Additional Watering	MG	83		
143	506	Remove and Replace Mailboxes	EA	1		
144	507, SS-507	4" Striping (Reflectorized Paint)	LF	202		
145	507, SS-507	6" Striping (Thermoplastic)	LF	4,440		
146	507, SS-507	12" Striping (Thermoplastic)	LF	56		
147	507, SS-507	Yield Lines (Thermoplastic)	LF	94		
148	507, SS-507	Crosswalks (8' Width)	LF	28		
149	507, SS-507	Crosswalks (12' Width)	LF	120		
150	507, SS-507	Pavement Symbols	EA	16		
151	508, SS-508	Standard Street Sign Installation	EA	46		
152	508, SS-508	Custom Advanced Direction Sign Installation	EA	8		
153	508, SS-508	Sign Support Assembly for New Street Signs	EA	36		
154	508, SS-508	Remove, Salvage, and Reinstall Existing Sign on New Post	EA	3		
155	509	Erosion Control	LS	1		
156	510	Traffic Control	LS	1		
157	510	Aggregate Base for Roadway Maintenance	TON	150		
158	511	Mobilization	LS	1		
159	512, SS-512	Barbed Wire Fence (Type D-1)	LF	495		
160	513, SS-513	Handicap Ramp Concrete	EA	8		
161	513, SS-513	Pedestrian Median Cut Ramp (Type I)	EA	2		
162	513, SS-513	Pedestrian Median Cut Ramp (Type II)	EA	2		

Item No.	Spec No.	Description	Unit	Estimated Quantity	Bid Unit Price	Bid Price
163	SP-10	Drop Inlets Adjusted to Grade	EA	1		
164	SP-24	Stone Backfill	TON	200		
165	SP-28	Owner's Allowance	L.S.	1	\$150,000	\$150,000
166	SP-29	P.C.C Pavement (Chevron Stamped and Surface Applied Color) (11' U.T.)	SY	435		
167	SP-25	Tree (Nutall Oak, 2" Cal., B&B)	EA	10		
168	SP-25	Tree (Chinquapin Oak, 3.5-4" Cal., 100-gal)	EA	1		
169	SP-25	Shrub (Blackhaw Viburnum, 5-gal)	EA	22		
170	SP-25	Shrub (Little Henry Dwf. Virginia Sweetspire, 3-gal)	EA	73		
171	SP-25	Shrub (Inkberry Holly, 1-gal)	EA	35		
172	SP-25	Shrub (Ozark Witch Hazel, 5-gal)	EA	3		
173	SP-25	Perennials (Virginia Spiderwort, 2" deep cell plug)	EA	255		
174	SP-25	Perennials (Cream Wild Indigo, 1-gal)	EA	124		
175	SP-25	Perennials (Rattlesnake Master, 1-gal)	EA	61		
176	SP-25	Perennials (Poppy Mallow, 2" deep cell plug)	EA	309		
177	SP-25	Perennials (Phantom Joe Pye Weed, 3-gal)	EA	45		
178	SP-25	Perennials (Summer Beauty Ornamental Onion, 1-gal)	EA	347		
179	SP-25	Grasses (Junegrass, 2" deep cell plug)	EA	255		
180	SP-25	Grasses (Inland Sea Oats, 1-gal)	EA	444		
181	SP-25	Grasses (Blue Grama Grass, 2" deep cell plug)	EA	309		
182	SP-25	Grasses (Prairie Dropseed, 1-gal)	EA	347		
183	SP-25	Rock Mulch (Oversized Brown Stone)	CY	53		
184	SP-25	Rock Mulch (3" Small Brown Gravel Native Stone)	CY	74		
185	SP-25	Planting Mix	CY	402		
186	SP-22	Light Fixture, Type A, Installed on 30' Mtg. Ht. Pole with Associated Hardware and Foundation	EA	3		
187	SP-22	Electrical Handhole, Composite	EA	7		

Item No.	Spec No.	Description	Unit	Estimated Quantity	Bid Unit Price	Bid Price
188	SP-22	Non-Encased Schedule 40 PVC, 2" Diameter, Installed in Trench	EA	1,250		
189	SP-22	No. 10 AWG Copper Conductor	EA	500		
190	SP-22	No. 6 AWG Copper Conductor	EA	4,400		
191	SP-22	Existing Light Pole, Relocated, with Existing Fixture on New Foundation	EA	1		
192	SP-26	Utility Mobilization	LS	1		
193	SP-26	Utility Trench Excavation Safety Systems	LS	1		
194	SP-26	Spot Dig and Verify Existing Utility Locations	LS	1		
195	SP-26	12" DI Water Line	LF	408		
196	SP-26	Ductile Iron Fittings for Water Line	LB	1,100		
197	SP-26	Cut and Cap Existing 12" Water Line	EA	2		
198	SP-26	Concrete Anchor Collar Block	EA	1		
199	SP-26	Fire Hydrant Assembly	EA	2		
200	SP-26	Salvage Fire Hydrant	EA	2		
201	SP-26	12" Tapping Sleeve and Valve	EA	2		
202	SP-26	Flowable Fill for Abandoned Pipe	CY	8		
203	SP-26	Trench Undercut and Backfill	CY	20		
204	SP-26	Rock Excavation for Utilities	CY	20		
205	SP-28	Water and Sewer Owner's Allowance	LS	1	\$15,000	\$15,000
Total of All Unit Price Bid Schedule 2 Items				\$		

Bidder acknowledges that (1) each Bid Unit Price includes an amount considered by Bidder to be adequate to cover Contractor's overhead and profit for each separately identified item, and (2) estimated quantities are not guaranteed, and are solely for the purpose of comparison of Bids, and final payment for all unit price Bid items will be based on actual quantities, determined as provided in the Contract Documents.

Total Bid Price

\$ _____
(in figures)

(in words)

ARTICLE 6 – TIME OF COMPLETION

6.01 Bidder agrees that the Work will be substantially complete within 425 calendar days after the date when the Contract Times commence to run as provided in Paragraph 4.01 of the General Conditions, and will be completed and ready for final payment in accordance with Paragraph 15.06 of the General Conditions within 455 calendar days after the date when the Contract Times commence to run.

6.02 Bidder accepts the provisions of the Agreement as to liquidated damages.

ARTICLE 7 – ATTACHMENTS TO THIS BID

7.01 The following documents are submitted with and made a condition of this Bid:

- A. Required Bid security;
- B. List of Project References;
- C. Evidence of authority to do business in the state of the Project; or a written covenant to obtain such license within the time for acceptance of Bids;
- D. Contractor's License No.: ; and
- E. Required Bidder Qualification Statement with supporting data.

ARTICLE 8 – DEFINED TERMS

8.01 The terms used in this Bid with initial capital letters have the meanings stated in the Instructions to Bidders, the General Conditions, and the Supplementary Conditions.

ARTICLE 9 – BID SUBMITTAL

BIDDER: *[Indicate correct name of bidding entity]*

By:

[Signature] _____

[Printed name] _____

(If Bidder is a corporation, a limited liability company, a partnership, or a joint venture, attach evidence of authority to sign.)

Attest:

[Signature] _____

[Printed name] _____

Title: _____

Submittal Date: _____

Address for giving notices:

Telephone Number:

Fax Number:

Contact Name and e-mail address:

Bidder's License No.:

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SP-26 –MEASUREMENT AND PAYMENT FOR WATER AND SEWER

SP-26-1 GENERAL

SP-26-1.1 SUMMARY

- A. This section includes delineation of measurement and payment criteria applicable to unit price work related to water and sewer, whether the unit price items are part of a unit price contract or are part of a Stipulated Price contract.
- B. Defect assessment and non-payment for rejected work.

SP-26-1.2 AUTHORITY

- A. Measurement methods are delineated for each individual bid item under this section.
- B. The Engineer or Owner's representative will take all measurements and compute quantities accordingly.
- C. Contractor shall assist by providing necessary equipment, workers, and survey personnel as required.

SP-26-1.3 UNIT QUANTITIES SPECIFIED

- A. Quantities and measurements indicated in the Bid Form are for bidding and contract purposes only. Quantities and measurements supplied or placed in the Work and verified by the Engineer shall determine payment.
- B. If the actual Work requires more or fewer quantities than those quantities indicated, provide the required quantities at the unit prices contracted.

SP-26-1.4 MEASUREMENT OF QUANTITIES

- A. Measurement by Weight: Items measured by weight will use specified standard handbook weights unless otherwise specified in this section for an individual item.
- B. Measurement by Volume: Unless herein noted differently, volume shall be measured by cubic dimension using mean length, width and height or thickness with survey chain, steel tape, approved distance meter, or by use of Total Surveying Stations and Engineering Software, as approved by Engineer.
- C. Measurement by Area: Unless herein noted differently, area shall be measured by square dimension using mean length and width or radius, with survey chain, steel tape, approved distance meter, or by use of Total Surveying Stations and Engineering Software, as approved by Engineer.
- D. Linear Measurement: Unless herein noted differently, linear measurements shall be measured at the item centerline or mean chord, with survey chain, steel tape, approved distance meter, or by use of Total Surveying Stations and Engineering Software, as approved by Engineer.
- E. Stipulated Price Measurement: Items measured by weight, volume, area, or linear means or combination, as appropriate, as a completed item or unit of the Work.

SP-26-1.5 PAYMENT

- A. Payment Includes: Except as modified herein, payment shall be full compensation for all required labor, products, tools, equipment, plant, transportation, services and incidentals; erection, application or installation of an item of the Work; overhead and profit.

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- B. Final payment for Work governed by unit prices will be made on the basis of the actual measurements and quantities accepted by the Engineer multiplied by the unit price for Work which is incorporated in or made necessary by the Work.

SP-26-1.6 DEFECT ASSESSMENT

- A. Replace the Work, or portions of the Work, not conforming to specified requirements.
- B. If, in the opinion of the Engineer, it is not practical to remove and replace the Work, the Engineer will direct the following remedy:
 - 1. The defective Work will be repaired to the instructions of the Engineer, and the unit price will be adjusted to a new price at the discretion of the Engineer.
- C. The authority of the Engineer to assess the defect and identify payment adjustment is final.

SP-26-1.7 NON-PAYMENT FOR REJECTED PRODUCTS

- A. Payment will not be made for any of the following:
 - 1. Products wasted or disposed of in a manner that is not acceptable.
 - 2. Products determined as unacceptable before or after placement.
 - 3. Products not completely unloaded from the transporting vehicle.
 - 4. Products placed beyond the lines, levels or boundaries of the required Work.
 - 5. Products remaining on hand after completion of the Work.
 - 6. Loading, hauling and disposing of rejected Products.
 - 7. Work performed beyond the specified limits unless authorized by the Engineer.

SP-26-1.8 BID ITEMS

- A. The following items are included in the Bid Schedule:
 - Utility Mobilization (NOT TO EXCEED 5%)

The work required by this item will be paid for at the lump sum (LS) price bid for Utility Mobilization associated with water and sanitary sewer construction shown in the Unit Price Schedule. This item shall consist of preparatory work and operations, including those necessary for the movement of personnel, equipment, supplies, and incidentals to or away from the project site and departure from the site after the project is completed and accepted. This item shall also include other work and operations that must be performed, or for expenses incurred, before beginning work on the various Contract items on the project site. It shall also include pre-construction costs which are necessary direct costs to the project and are of a general nature rather than directly attributable to other pay items under the Contract including videotaping the site before and after construction. Periodic payments will be made in proportion to the amount of work accomplished, as determined by the Owner, and will be full compensation for mobilization, including all materials, labor, and incidentals necessary to perform the work.

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- Utility Trench Excavation Safety Systems

The work required by this item will be paid for at the lump sum (LS) price bid for Utility Trench and Excavation Safety as shown in the Unit Price Schedule. After contract award, the Contractor shall submit to the Owner a cost breakdown for the work involved in the lump sum price bid for Utility Trench and Excavation Safety System and shall, with each periodic payment request, submit a certification by the "competent person" as defined in 29 CFR 1926.650(b) that the Contractor has complied with the provisions of the OSHA Standard for Excavation and Trench Safety Systems, 29 CFR 1926 Subpart P, for work for which payment is requested. Periodic payments will be made in proportion to the amount of work accomplished, as determined by the Owner, and will be full compensation for trench and excavation safety associated with water and sanitary sewer construction, including all materials, labor, and incidentals necessary to perform the work.

- Spot Dig and Verify Existing Utility Locations

The work required by this item will be paid for at the lump sum (LS) price bid for Spot Dig and Verify Existing Utility Locations shown in the Unit Price Schedule. This item shall consist of notifying utility owners and spot digging and verifying actual locations of all utilities at connections or intersections of proposed water and sewer facilities prior to any construction. Delays, additional corrective action work, and replacement of facilities installed when conflicts arise from not spot digging will be made at the Contractor's expense.

- 12" DI Water Line
- 8" DI Water Line

The work required by the above listed items will be paid for at the linear foot (LF) price bid for the above listed items as shown in the Unit Price Schedule. Work performed and accepted under this item will be measured horizontally by the linear foot (LF) along the center of the excavated trench. The measurement will exclude the lengths installed for fittings, for valves, and elsewhere where pipe is not actually installed. Payment will be full compensation for all excavation, dewatering, backfill (including class 7 backfill), acquisition and transportation of additional backfill materials, fittings (except DI fittings), restraint glands, tracer wire and marking tape, connections to existing pipes, testing including fitting connections and backfill compaction, and all other materials, labor, and incidentals necessary to perform the work.

Excavation shall include, but not be limited to: soil, stones, stumps, debris, concrete, structures, footings, foundations, and any other obstacles that may obstruct the work except for undercut and rock excavation authorized by the Engineer which will be paid for under a separate pay item.

- Ductile Iron Fittings for Water Line

The work required by the above listed items will be paid for at the price bid per pound (LB) of Ductile Iron Fittings as shown in the Unit Price Schedule for the items listed above. These items shall consist of installing Ductile Iron Fittings of the size specified at the locations shown on the plans or as directed by the Engineer.

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Work performed and accepted under this item shall be measured per pound (LB) of fittings properly installed and accepted by the Engineer. Payment for the weight of fittings will exclude restraint glands. Payment will be full compensation for fittings, swivel adapters, mechanical joint glands, “Mega-Lug” type restrained joint glands, thrust blocking, polywrap, and all other materials, equipment, tools, labor, and incidentals necessary to complete the installation of the fittings.

- Cut and Cap Existing 12” Water Line

Work completed under this item shall be measured and paid for by each (EA) cut and cap of the size shown on the plans, or as directed by the Owner or Engineer, acceptably installed and accepted. Payment shall be full compensation for providing and installing mechanical joint cap, “Mega-Lug” type restrained joint glands, thrust blocking, and all other materials, equipment, tools, labor and incidentals necessary to cut, cap, and kill the water main.

- Concrete Anchor Collar Block

Work completed under this item shall be measured and paid for by each (EA) anchor collar block as specified on the plans, or as directed by the Owner or Engineer, installed and accepted by the Owner. Payment shall be full compensation for furnishing and/or installing the assembly per RWU Detail WD-1/10, including stainless steel all-threads and all other equipment, tools, labor, and incidentals necessary to complete the work.

- Fire Hydrant Assembly

Work completed under this item shall be measured and paid for by each (EA) fire hydrant assembly installed complete as shown on the plans, or as directed by the Owner or Engineer, and accepted by the Owner. Payment shall be full compensation for all furnishing and installing fire hydrants, risers (as required), auxiliary valve, valve box and lid, locked hydrant adapters, 6” ductile iron pipe, thrust blocking, “Mega-Lug” type restrained joint glands, tracer wire, concrete slab around the valve box, paint, granular material for hydrant drainage, thrust blocking, and all other materials, equipment, tools, labor, and incidentals necessary to complete the fire hydrant installation. Work shall be per RWU Detail WD-1/4A.

- Fire Hydrant Assembly – 8” Lead

Work completed under this item shall be measured and paid for by each (EA) fire hydrant assembly installed complete as shown on the plans, or as directed by the Owner or Engineer, and accepted by the Owner. Payment shall be full compensation for all furnishing and installing fire hydrants, risers (as required), auxiliary valves, valve box and lid, locked hydrant adapters, thrust blocking, “Mega-Lug” type restrained joint glands, mechanical joint reducer, tracer wire, concrete slab around the valve box, paint, granular material for hydrant drainage, thrust blocking, and all other materials, equipment, tools, labor, and incidentals necessary to complete the fire hydrant installation. Payment for 8” ductile iron pipe is excluded from this item and will be paid separately. Work shall be per RWU Detail WD-1/4B.

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- **Salvage Fire Hydrant**

Work completed under this item shall be measured and paid for by each (EA) fire hydrant removed and delivered to RWU as shown on the plans, or as directed by the Owner or Engineer, and accepted by the Owner. Payment shall be full compensation for excavation, removal of hydrant, delivery of hydrant to RWU, removal of hydrant valve box, backfill and compaction, and all other materials, equipment, tools, labor, and incidentals necessary to complete the fire hydrant installation.

- **12"x12" Tapping Sleeve and Valve**

Work completed under this item shall be measured and paid for by each (EA) tapping sleeve and valve of the size specified on the plans, or as directed by the Owner or Engineer, installed and accepted by the Owner. Payment shall be full compensation for furnishing and installing the tapping sleeve and valve with valve box and lid, valve nut extension with set screw, the water main tap, "Mega-Lug" type restrained joint glands, tracer wire, polywrap, thrust blocking, testing, concrete slabs around the top of the valve boxes, water line tapping, and all other equipment, tools, labor, and incidentals necessary to complete the work.

- **12" Butterfly Valve**

- **8" Gate Valve**

Work completed under this item shall be measured and paid for by each (EA) valve of the size specified on the plans, or as directed by the Owner or Engineer, installed and accepted by the Owner. Payment shall be full compensation for furnishing and installing the valve with valve box and lid, valve nut extension with set screw, "Mega-Lug" type restrained joint glands, tracer wire, polywrap, testing, concrete slabs around the top of the valve boxes, and all other equipment, tools, labor, and incidentals necessary to complete the work. Work shall be per RWU Details.

- **Adjust Existing Manhole to Grade**

Work required by this item will be measured and paid for per each (EA) Adjust Existing Manhole to Grade. This item shall consist of removing all or portions of the existing manhole and installing a new cone, frame and lid at locations shown on the plans or directed by the Owner or Engineer in accordance with RWU Detail SD-1/10. Work performed and accepted under this item will be measured by each (EA) manhole. Payment will be full compensation for all excavation, concrete, frame and lid, dowels, backfill, disposal, and all other materials, labor, and incidentals necessary to perform the work.

- **24" Steel Encasement by Open Cut**

The work required by this item will be paid for at the linear foot (LF) price bid for 24" steel encasement installed by open cut, complete as shown on the plans, or as directed by the Owner or Engineer, and accepted by the Owner. This item shall consist of furnishing and installing steel encasement pipe as specified at the locations shown on the plans. Work performed and accepted under this item will be measured by the linear foot (LF) from end to end of encasement installed and accepted. However, quantity is not to

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exceed the planned length shown on the Plans unless authorized by the Engineer. Payment will be full compensation for all steel encasement pipe, excavation including stabilization, dewatering, casing spacers, casing end seals, bedding and backfill, and all other materials, labor, and incidentals necessary to perform the work.

Excavation shall include, but not be limited to: soil, stones, stumps, debris, concrete, structures, footings, foundations, and any other obstacles that may obstruct the work except for undercut authorized by the Engineer which will be paid for under a separate pay item. Rock encountered during excavation shall be paid for as a separate item.

- **Flowable Fill for Abandoned Pipe**

Work completed under this item shall be measured and paid for per cubic yard (CY) price bid for Flowable Fill for Abandoned Pipe. This item shall consist of pumping flowable fill into water and sanitary sewer pipes that are or will be abandoned by proposed facilities that are located or will be located within traffic locations as shown on the plans as field verified by the Owner or Engineer. Measurement will be made by volume of flowable fill pumped into the pipe under traffic locations only. Allowable volume shall not exceed one (1) CY of flowable fill per 25 LF of 12" pipe, 60 LF of 8" pipe, or 100 LF of 6" pipe. Payment shall be full compensation for all flowable fill, excavation, backfill, pumping, and for all other materials, equipment, tools, labor, and incidentals necessary to complete the work.

- **Trench Undercut and Backfill**

The work required by this item will be paid for at the cubic yard (CY) price bid for Undercut and Backfill as shown in the Unit Price Schedule. This item shall consist of undercutting unsuitable materials from the bottom of pipeline trenches or from the bottom of manhole or concrete excavations and replacing with select granular fill materials. Work performed and accepted under this item will be measured by the cubic yard (CY) of materials actually removed as directed by the Engineer. Unauthorized undercutting shall not be measured for payment but shall be replaced as directed by the Engineer and at the Contractor's expense. Replacement of material that has become unsuitable by the Contractor's negligence shall be made at the Contractor's expense. Payment will be full compensation for all excavation, backfilling, granular fill materials, and all other materials, labor, and incidentals necessary to perform the work.

- **Rock Excavation for Utilities**

The work required by the above listed item will be paid for at the price bid per cubic yard (CY) of rock excavated. Material shall be classified as rock if, in the opinion of the Engineer, the material cannot be removed except by blasting, using trenchers with rock teeth, or employing hydraulic hammers to fracture the rock. Said resistance to ordinary removal methods shall be demonstrated to the satisfaction of the Engineer by the Contractor. Rock excavation shall also include the removal of boulders one-half cubic yard or more in volume.

The rock shall be excavated to provide clearances below and on each side of all pipe, valves, fittings, and manholes. Every trench or excavation in rock shall be fully opened at least 50 feet in advance of the location where pipe is being laid.

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Work performed and accepted under this item will be measured by the cubic yard (CY) of rock removed. Measurement shall be performed as follows. Upon encountering the rock, the Contractor shall excavate to the top of the rock. Upon the Engineer's agreement that the material meets the stated criteria to be classified as rock, the Contractor shall then record the elevations of the top of rock. The Contractor shall then excavate to the limits described. Upon the Engineers approval of the excavation limits, the Contractor shall record the elevations and dimensions of the excavation. Elevations shall be based on established control points or temporary benchmarks. Said records will be provided to the Engineer for verification of the quantity removed. Pre- and post-removal elevations for trench excavation shall be taken every 20 linear feet or fraction thereof or at definite grade breaks. Pre- and post-removal elevations for manholes, junction structures, etc. shall be taken as necessary to calculate the amount of rock removed. The quantity removed shall be calculated by the average end area method based on the width and depth requirements stated above. Rock excavated in excess of required clearances will not be measured or paid for. The cost of backfilling over excavated areas will be borne solely by the Contractor. Measurement for rock excavation made by blasting when approved shall be approved by Owner and Engineer.

Payment will be full compensation for all rock removal, disposal of removed materials, additional bedding materials for areas beyond the excavation limits, dewatering, specialized equipment or materials, and all other materials, labor, and incidentals necessary to perform the work.

- 1" Water Service Line & 5/8" Meter Set

The work completed under this item will be measured and paid for at the price bid per each (EA) 1" Water Service Line & 5/8" Meter Set. This item shall consist of the installation of a new 1" water service line terminating with a new single 5/8" meter box per RWU detail WD-1/6. Payment will be full compensation for all excavation (excluding rock), dewatering, backfill, tapping saddle, corporation stop, copper tubing, fittings, meter set, meter box, and all other materials, labor, and incidentals necessary to perform the work.

SP-26-2 PRODUCTS

Not Used

SP-26-3 EXECUTION

Not Used

END OF SECTION SP-26